Serial No. Div of 09/756,818 Group

1-9-2001

CLAIM AMENDMENTS

1. (currently amended) A method of calibrating an electrical circuit for sensing a temperature, said method comprising the steps of:

a. providing a temperature sensor,

b. providing an electrical circuit adapted to receive a signal from the ~~thermistor~~ temperature sensor and to produce an output signal indicative of the sensed temperature of the ~~thermistor~~ temperature sensor,

c. inputting at least two known electrical voltages to the circuit,

d. analyzing the output signals representative of the output for each of the at least two input voltage signals,

e. using a set of equations equal to the number of the at least two input voltage signals to determine the constants in the equations, and

f. using the determined constants to calibrate the electrical circuit.

2. (original) A method as defined in claim 1 wherein said step of providing a temperature sensor comprises providing a thermistor.

3. (original) A method as defined in claim 2 wherein said step of using a set of equations comprises using two equations, each corresponding to one of said input voltages.

4. (original) A method as defined in claim 1 wherein said step of providing an electrical circuit includes providing an electrical circuit having a voltage divider.

5. (original) A method as defined in claim 1 wherein said step of providing an electrical circuit includes providing an electrical circuit having an analog to digital converter and wherein said output signal is in digital form.

6. (original) A method as defined in claim 1 wherein said step of using a set of equations comprises using the equation $Vo = mV_1 + b$ and solving for the constants m and b.

Claims 7-12 (canceled)

13. (original) A method of calibrating an electrical circuit, said method comprising the steps of:

a. providing an electrical component producing a signal representative of a sensed parameter,

b. providing an electrical circuit adapted to receive a signal from the electrical component and to produce an output signal indicative of the sensed parameter,

c. inputting at least two known electrical voltages to the circuit,

d. analyzing the output signals representative of the output for each of the at least two input voltage signals,

e. using a set of equations equal to the number of the at least two input voltage signals to determine the constants in the equations, and

f. using the determined constants to calibrate the electrical circuit.

14. (currently amended) A method of calibrating an electrical circuit as defined in claim 13 ~~where~~ wherein said step of inputting at least two known electrical voltages comprises inputting two voltages and said step of using a set of equations comprises using two equations having two unknowns.

15. (original) A method of calibrating an electrical circuit as defined in claim 14 wherein said two unknowns are the span and offset constants for said circuit.

16. (original) A method of calibrating an electrical circuit as defined in claim 15 wherein said sensed parameter is temperature.